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**Lab Dept:** Coagulation

**Test Name:** FACTOR 10 CHROMOGENIC

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***General Information***

**Lab Order Codes:** F10CH

**Synonyms:** Factor X Chromogenic

**CPT Codes:** 85260- factor X

**Test Includes:** Factor 10 antigen level reported as a percentage.

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***Logistics***

**Test Indications:** This test may be used to monitor warfarin therapy for patients with lupus anticoagulants.

**Lab Testing Sections:** Coagulation - Sendouts

**Referred to:** Fairview University of Minnesota Medical Center (Fairview: F10CH)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** Monday-Saturday, same day if received by the testing lab by 2 p.m. Testing not performed on Sundays.

**Special Instructions:** Patient should not be receiving heparin. If so, this should be noted on the request form. Heparin can affect certain coagulation factors or assay, preclude their performance, or cause spurious results.

Indicate when the specimen is drawn from a line or a heparin lock. Deliver immediately to the laboratory.

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***Specimen***

**Specimen Type:** Whole blood

**Container:** Light Blue top (Buffered Na Citrate 3.2%) tube

**Draw Volume:** 2.7 mL blood in a 3 mL tube (Minimum: 1.8 mL in a 2 mL tube) Please respect fill line on tube

<b>Processed Volume:</b>	2 mL (Minimum 1 mL) plasma, CRITICAL FROZEN within 4 hrs.
<b>Collection:</b>	Routine blood collection  Do Not use the first 2 mL of blood collected. If the patient's hematocrit is >55%, contact laboratory to obtain a special tube. Mix thoroughly by gentle inversion.
<b>Special Processing:</b>	Lab Staff- Must be processed for platelet poor plasma and frozen <b>within 4 hours of collection:</b>  Centrifuge sample collected in blue top tube(s) for 5 minutes in the Stat Spin centrifuge, remove plasma and transfer to a 4 mL BCS sample cup(s), spin remaining plasma again for 5 minutes in the Stat Spin Centrifuge. Transfer plasma into one labeled 10x75 mL plastic tubes with 2 mL (Minimum: 1 mL) plasma. Secure specimen label with clear tape, if needed. Freeze at -70°C (-20°C acceptable per testing lab) and send specimens on dry ice to Fairview University of Minnesota Medical Center.  If multiple coagulation tests are sent to the reference lab from one blue top tube, split plasma into two aliquots of 0.5 mL each.
<b>Patient Preparation:</b>	If the patient has a coagulation abnormality, apply direct pressure to the puncture site for 10 minutes; apply pressure bandage. Instruct the patient to leave the bandage on for 12 hours.
<b>Sample Rejection:</b>	Improper tube; clotted samples; underfilled tubes; overfilled tubes; mislabeled or unlabeled specimens; gross hemolysis; grossly icteric or lipemic; incorrect anticoagulant; incorrect plasma:anticoagulant ratio for patients with high hematocrit; specimen thawed in transport; specimen not frozen within four hours of collection

***Interpretive***

<b>Reference Range:</b>	70 - 130 %
<b>Critical Values:</b>	Less than 10%
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Chromogenic (synthetic substrate) Assay
<b>Contraindications:</b>	A chromogenic factor 10 level of approximately 20 to 40 percent inversely correlates with an INR of 2 to 3 for patients receiving warfarin. Chromogenic factor 10 levels below 20 percent indicate an INR greater than 3, and levels above 40 percent indicate an INR less than 2.
<b>References:</b>	<a href="#">Fairview University</a> February 2023

